BRUHAT BANGALORE MAHANAGARA PALIKE

BYATARAYANA PURA DIVISION

Name of Work: Construction of CC road & RCC drain at cross roads of 3rd Cross roads and surrounding area at Kattigenahalli Village in Ward No.05

ESTIMATE COST :65.00 Lakhs

Executive Engineer,
BYATARAYANAPURA DIVISION,

BRUHATH BENGALORE MAHANAGARA PALIKE

ne of Work :- Construction of CC road & RCC drain at cross roads of 3rd Cross roads and surrounding area at Kattigenahalli Village in Ward No.05

					Estimated Cost:65.00 Lkahs			
Description of Items	**No**	**Length**	**Width**	**Depth**	**Quantity**	**Unit**	**Rate**	**Amount**
KSRRB 300-3. **Earthwork excavation by manual means** for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. (Page No. 142/ Item No. 19.1/ PWD SR 2018-19)								
Kattigenahalli								
OM Circle								
For RCC Drain								
LHS Cross Roads From 3rd Cross								
Cross-1	2	68.00	1.10	1.00	149.60			
Cross-2	2	68.00	1.10	1.00	149.60			
Cross-3	2	80.00	1.10	1.00	176.00			
For CC Road								
LHS Cross Roads From 3rd Cross								
Cross-1	1	68.00	5.30	0.30	108.12			
Cross-2	1	68.00	5.30	0.30	108.12			
Cross-3	1	80.00	5.10	0.30	122.40			
					813.84	**Cum**	**220.40**	**179370.34**
Basic Rate	130.00							
Loading and Unloading	57.00							
Lead For Earth 10km	25.60							
Area Weightage 6%	7.80							
Data Rate	**220.40**							
KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18 PWD SR 2018-19)								
Kattigenahalli								
OM Circle								
For RCC Drain								
LHS Cross Roads From 3rd Cross								
Cross-1	2	68.00	1.10	0.15	22.44			
Cross-2	2	68.00	1.10	0.15	22.44			
Cross-3	2	80.00	1.10	0.15	26.40			
For CC Road								
LHS Cross Roads From 3rd Cross								
Cross-1	1	68.00	5.30	0.15	54.06			
Cross-2	1	68.00	5.30	0.15	54.06			
Cross-3	1	80.00	5.10	0.15	61.20			
					240.60	**Cum**	**5509.33**	**1325544.00**
Basic Rate	5115.00							
Deduct Cement cost as per SR -18-19	-1079.39	Note:- (220*490.63/100)=1079.39						
Add Cement cost as per Issue rate	1161.86	Note:- (220*264.06/50)=1161.86						
Sub Total	**5197.48**							
Area Weightage 6%	311.85							
Grand Total	**5509.33**							

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Providing and laying plain/reinforced cement concrete for side drains **using M20 nominal mix** concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271 PWD SR 2018-19)								
Kattigenahalli								
OM Circle								
Bottom Raft								
LHS Cross Roads From 3rd Cross								
Cross-1	2	68.00	0.90	0.15	18.36			
Cross-2	2	68.00	0.90	0.15	18.36			
Cross-3	2	80.00	0.90	0.15	21.60			
For RCC Wall								
LHS Cross Roads From 3rd Cross								
Cross-1	4	68.00	0.15	0.75	30.60			
Cross-2	4	68.00	0.15	0.75	30.60			
Cross-3	4	80.00	0.15	0.75	36.00			
					155.52	**Cum**	**7189.42**	**1118098.32**
Basic Rate	6670.00							
Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1471.89	Note:- (300*490.63/100)=1471.89						
Add Cement cost as per Issue rate	1584.36	Note:- (300*264.06/50)=1584.36						
Sub Total	**6782.47**							
Area Weightage 6%	406.95							
Grand Total	**7189.42**							
KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3 (I No-28.8.2,P No-229 PWD SR 2018-19)								
Consider 65kg/Cum for drain	1	155.52	65.00		10186.56			
					10.19	**Tonne**	**72326.98**	**736763.12**
Basic Rate	68233.00							
Area Weightage 6%	4093.98							
Data Rate	**72326.98**							
Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete.(Data Rate)								
For RCC Drain								
LHS Cross Roads From 3rd Cross								
Cross-1	2	68.00	0.90		122.40			
Cross-2	2	68.00	0.90		122.40			
Cross-3	2	80.00	0.90		144.00			
					388.80	**Sqm**	**2337.00**	**908625.60**
Data Rate	**2337.00**							
KSRRB 300-Compaction KSRRB 300-58. **Compaction of original ground** with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications.(P.No. 147, I.No. 19.64 PWD SR 2018-19)								
For CC Road								
LHS Cross Roads From 3rd Cross								
Cross-1	1	68.00	5.30		360.40			
Cross-2	1	68.00	5.30		360.40			
Cross-3	1	80.00	5.10		408.00			
					1128.80	**Sqm**	**6.36**	**7179.17**

No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Basic Rate	6.00							
	Area Weightage 6%	0.36							
	Data Rate	**6.36**							
	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (Page No.155.tem No.20.18,PW,P & IWTD SR 2018-19)								
	For CC Road								
	LHS Cross Roads From 3rd Cross								
	Cross-1	1	68.00	5.30	0.15	54.06			
	Cross-2	1	68.00	5.30	0.15	54.06			
	Cross-3	1	80.00	5.10	0.15	61.20			
						169.32	**Cum**	**2001.28**	**338856.73**
	Basic Rate	1888.00							
	Area Weightage 6%	113.28							
	Data Rate	**2001.28**							
8	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) (Page No. 175.tem No.22.6.1,PW,P & IWTD SR 2018-19)								
	For CC Road								
	LHS Cross Roads From 3rd Cross								
	Cross-1	1	68.00	5.30	0.15	54.06			
	Cross-2	1	68.00	5.30	0.15	54.06			
	Cross-3	1	80.00	5.10	0.15	61.20			
						169.32	**Cum**	**5354.02**	**906542.98**
	Basic Rate	4916.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1766.27	Note:- (360*490.63/100)=1766.27						
	Add Cement cost as per Issue rate	1901.23	Note:- (360*264.06/50)=1901.23						
	Sub Total	**5050.96**							
	Area Weightage 6%	303.06							
	Grand Total	**5354.02**							
9	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.(Page No. 178.tem No.22.7,PW,P & IWTD SR 2018-19)								
	For CC Road								
	LHS Cross Roads From 3rd Cross								
	Cross-1	1	68.00	5.30		360.40			
	Cross-2	1	68.00	5.30		360.40			
	Cross-3	1	80.00	5.10		408.00			
						1128.80	**Cum**	**72.08**	**81363.90**
	Basic Rate	68.00							
	Area Weightage 6%	4.08							
	Grand Total	**72.08**							
								Total Construction Cost	**5602344.15**

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
								GST Charges 12%	672281.30
								KRIDL Charges 4%	224093.77
								Sub Total	6498719.22
								Utility Shifting,Miscellaneous and Rounding off	1280.78
								GRAND TOTAL	6500000.00

Certificate

This Work Comes Within BBMP Limits.

Certified that personaly Inspected the Work Spot.

Certified that the Estimate is Prepared Based on CSR of PWD Bangalore Circle 2018-19 & issued rate Dated. 21/10/2019

Estimate is Prepared Making Use of essential itemof work as per site conditions in safest way of Execution in most economical wa

This work is not include in any other program of work.

Assistant Engineer
Ward No.05

Asst. Executive Engineer,
Byatarayanapura Sub division,

Executive Engineer,
Byatarayanapura Division
27/02

ADMINISTRATIVE APPROVAL
Accorded For Rs. 65.00 Lakhs only
Head of A/c P3736
Div. Ref. No. 118/19-20 Date 16-03-2020
AE 16/03
EE(BTP) 16/03

Technically sanctioned for Rs. 65,00,000/-
Rs. SIXTY FIVE LAKH ONLY
Under P 3736
Job Code No 005-20-000077
Registered as SE(Y)/TS/ 47 / 19-20 subject to conditions contained in enclosed memo No 47 / 19-20 Dated: 6/3/2020
SE(Y)

Name of Work :- Construction of CC road & RCC drain at cross roads of 3rd Cross roads and surrounding area at Kattigenahalli Village in Ward No.05

Assistant Engineer
Ward No.05

Assistant Executive Engineer
Byatarayanapura Sub division,

All Dimensions are in Meters